

$$\begin{array}{c}
 \begin{array}{ccccccc}
 & u & x & & v & & \\
 | & & & & & & | \\
 & \dots & x & \nearrow y^r & \cancel{x} & \dots & \\
 & & & & & & \\
 u & & & & z & & v
 \end{array}
 & = &
 \begin{array}{ccccccc}
 & u & x & & v & & \\
 | & & & & & & | \\
 & \dots & & \boxed{(f \circ g)} & \dots & & \\
 & & & & & & \\
 u & & z & & v & &
 \end{array}
 \end{array}$$